



SEQUENCE LISTING

<110> Wittamer, Valerie
Communi, David
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Parmentier, Marc

<120> Natural Ligand of G Protein Coupled Receptor ChemR23 and Us
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<130> 9409/2041

<140> US 09/905,253
<141> 2001-07-13

<150> US 60/303,858
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<170> PatentIn version 3.0

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<213> Homo sapiens

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35 40 45

Cys Phe Leu Gly Ile Leu Gly Asn Gly Leu Val Ile Ile Ile Ala Thr
50 55 60

Phe Lys Met Lys Lys Thr Val Asn Met Val Trp Phe Leu Asn Leu Ala
65 70 75 80

Val Ala Asp Phe Leu Phe Asn Val Phe Leu Pro Ile His Ile Thr Tyr
85 90 95

Ala Ala Met Asp Tyr His Trp Val Phe Gly Thr Ala Met Cys Lys Ile
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Ser Asn Phe Leu Leu Ile His Asn Met Phe Thr Ser Val Phe Leu Leu
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Thr Ile Ile Ser Ser Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp
130 135 140

Ser Gln Asn His Arg Ser Val Arg Leu Ala Tyr Met Ala Cys Met Val
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Ile Trp Val Leu Ala Phe Phe Leu Ser Ser Pro Ser Leu Val Phe Arg
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Asp Thr Ala Asn Leu His Gly Lys Ile Ser Cys Phe Asn Asn Phe Ser
180 185 190

Leu Ser Thr Pro Gly Ser Ser Trp Pro Thr His Ser Gln Met Asp
195 200 205

Pro Val Gly Tyr Ser Arg His Met Val Val Thr Val Thr Arg Phe Leu
210 215 220

Cys Gly Phe Leu Val Pro Val Leu Ile Ile Thr Ala Cys Tyr Leu Thr
225 230 235 240

Ile Val Cys Lys Leu Gln Arg Asn Arg Leu Ala Lys Thr Lys Lys Pro
245 250 255

Phe Lys Ile Ile Val Thr Ile Ile Ile Thr Phe Phe Leu Cys Trp Cys
260 265 270

Pro Tyr His Thr Leu Asn Leu Leu Glu Leu His His Thr Ala Met Pro
275 280 285

Gly Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Leu Ala Ile
290 295 300

Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly Gln Asp
305 310 315 320

Phe Lys Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Val Asn Ala Leu
325 330 335

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Lys Met Ser Ser Met Asn Glu Arg Thr Ser Met Asn Glu Arg Glu Thr
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Gly Met Leu
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<213> Mus musculus

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Glu Ala Lys Val Ala Pro Val Phe Leu Val Val Ile Tyr Ser Leu Val
35 40 45

Cys Phe Leu Gly Leu Leu Gly Asn Gly Leu Val Ile Val Ile Ala Thr
50 55 60

Phe Lys Met Lys Lys Thr Val Asn Thr Val Trp Phe Val Asn Leu Ala
65 70 75 80

Val Ala Asp Phe Leu Phe Asn Ile Phe Leu Pro Met His Ile Thr Tyr
85 90 95

Ala Ala Met Asp Tyr His Trp Val Phe Gly Lys Ala Met Cys Lys Ile
100 105 110

Ser Asn Phe Leu Leu Ser His Asn Met Tyr Thr Ser Val Phe Leu Leu
115 120 125

Thr Val Ile Ser Phe Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp
130 135 140

Ser Gln Asn His Arg Ser Ile Arg Leu Ala Tyr Met Thr Cys Ser Ala
145 150 155 160

Val Trp Val Leu Ala Phe Phe Leu Ser Ser Pro Ser Leu Val Phe Arg
165 170 175

Asp Thr Ala Asn Ile His Gly Lys Ile Thr Cys Phe Asn Asn Phe Ser
180 185 190

Leu Ala Ala Pro Glu Ser Ser Pro His Pro Ala His Ser Gln Val Val
195 200 205

Ser Thr Gly Tyr Ser Arg His Val Ala Val Thr Val Thr Arg Phe Leu
210 215 220

Cys Gly Phe Leu Ile Pro Val Phe Ile Ile Thr Ala Cys Tyr Leu Thr
225 230 235 240

Ile Val Phe Lys Leu Gln Arg Asn Arg Leu Ala Lys Asn Lys Lys Pro
245 250 255

Phe Lys Ile Ile Ile Thr Ile Ile Ile Thr Phe Phe Leu Cys Trp Cys
260 265 270

Pro Tyr His Thr Leu Tyr Leu Leu Glu Leu His His Thr Ala Val Pro
275 280 285

Ser Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Val Ala Ile
290 295 300

Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly His Asp
305 310 315 320

Phe Arg Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Ala Asn Ala Leu
325 330 335

Ser Glu Asp Thr Gly Pro Ser Ser Tyr Pro Ser His Arg Ser Phe Thr

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Lys Met Ser Ser Leu Asn Glu Lys Ala Ser Val Asn Glu Lys Glu Thr
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Ser Thr Leu
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<213> Rattus norvegicus

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 <213> Rattus norvegicus

<400> 6

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 Ser Asp Gly Ser Asp Tyr Ile Val Asp Leu Glu Glu Ala Gly Pro Leu
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 Glu Ala Lys Val Ala Glu Val Phe Leu Val Val Ile Tyr Ser Leu Val

35	40	45
Cys Phe Leu Gly Ile Leu Gly Asn Gly Leu Val Ile Val Ile Ala Thr		
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Phe Lys Met Lys Lys Thr Val Asn Thr Val Trp Phe Val Asn Leu Ala		
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Val Ala Asp Phe Leu Phe Asn Ile Phe Leu Pro Ile His Ile Thr Tyr		
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Ala Ala Met Asp Tyr His Trp Val Phe Gly Lys Ala Met Cys Lys Ile		
100	105	110
Ser Ser Phe Leu Leu Ser His Asn Met Tyr Thr Ser Val Phe Leu Leu		
115	120	125
Thr Val Ile Ser Phe Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp		
130	135	140
Ser Gln Asn His Arg Ser Val Arg Leu Ala Tyr Met Thr Cys Val Val		
145	150	155
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Val Trp Val Trp Leu Ser Ser Glu Ser Pro Pro Ser Leu Val Phe Gly		
165	170	175
His Val Ser Thr Ser His Gly Lys Ile Thr Cys Phe Asn Asn Phe Ser		
180	185	190
Leu Ala Ala Pro Glu Pro Phe Ser His Ser Thr His Pro Arg Thr Asp		
195	200	205
Pro Val Gly Tyr Ser Arg His Val Ala Val Thr Val Thr Arg Phe Leu		
210	215	220
Cys Gly Phe Leu Ile Pro Val Phe Ile Ile Thr Ala Cys Tyr Leu Thr		
225	230	235
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Ile Val Phe Lys Leu Gln Arg Asn Arg Gln Ala Lys Thr Lys Lys Pro		
245	250	255
Phe Lys Ile Ile Ile Thr Ile Ile Thr Phe Phe Leu Cys Trp Cys		
260	265	270

Pro Tyr His Thr Leu Tyr Leu Leu Glu Leu His His Thr Ala Val Pro
275 280 285

Ala Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Val Ala Ile
290 295 300

Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly His Asp
305 310 315 320

Phe Lys Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Val Asn Ala Leu
325 330 335

Ser Glu Asp Thr Gly Pro Ser Ser Tyr Pro Ser His Arg Ser Phe Thr
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Lys Met Ser Ser Leu Ile Glu Lys Ala Ser Val Asn Glu Lys Glu Thr
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Ser Thr Leu
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Ala Leu Glu Glu Phe His Lys His Pro Pro Val Gln Trp Ala Phe Gln
35 40 45

Glu Thr Ser Val Glu Ser Ala Val Asp Thr Pro Phe Pro Ala Gly Ile
50 55 60

Phe Val Arg Leu Glu Phe Lys Leu Gln Gln Thr Ser Cys Arg Lys Arg
65 70 75 80

Asp Trp Lys Lys Pro Glu Cys Lys Val Arg Pro Asn Gly Arg Lys Arg
85 90 95

Lys Cys Leu Ala Cys Ile Lys Leu Gly Ser Glu Asp Lys Val Leu Gly
100 105 110

Arg Leu Val His Cys Pro Ile Glu Thr Gln Val Leu Arg Glu Ala Glu
115 120 125

Glu His Gln Glu Thr Gln Cys Leu Arg Val Gln Arg Ala Gly Glu Asp
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Pro His Ser Phe Tyr Phe Pro Gly Gln Phe Ala Phe Ser Lys Ala Leu
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Pro Arg Ser

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<211> 489
<212> DNA
<213> Mus musculus

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<212> PRT
<213> Mus musculus

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35 40 45

Phe Gln Glu Ile Gly Val Asp Arg Ala Glu Glu Val Leu Phe Ser Ala
50 55 60

Gly Thr Phe Val Arg Leu Glu Phe Lys Leu Gln Gln Thr Asn Cys Pro
65 70 75 80

Lys Lys Asp Trp Lys Lys Pro Glu Cys Thr Ile Lys Pro Asn Gly Arg
85 90 95

Arg Arg Lys Cys Leu Ala Cys Ile Lys Met Asp Pro Lys Gly Lys Ile
100 105 110

Leu Gly Arg Ile Val His Cys Pro Ile Leu Lys Gln Gly Pro Gln Asp
115 120 125

Pro Gln Glu Leu Gln Cys Ile Lys Ile Ala Gln Ala Gly Glu Asp Pro
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His Gly Tyr Phe Leu Pro Gly Gln Phe Ala Phe Ser Arg Ala Leu Arg
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Thr Lys

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<212> PRT
<213> Artificial

<220>
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<212> DNA
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<223> CREB binding site

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<212> PRT
<213> Homo sapiens

<400> 13

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<210> 14
<211> 10
<212> PRT
<213> Homo sapiens

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Arg Asp Trp Lys Lys Pro Glu Cys Lys Lys
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<210> 15
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<212> PRT
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<400> 15

Arg Gly Leu Gln Val Ala Leu Glu Glu Phe His Lys His
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<210> 16
<211> 14
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<212> PRT
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<400> 19

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<212> DNA
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<212> DNA
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<210> 23
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<212> DNA
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<211> 48
<212> DNA
<213> Homo sapiens

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<210> 30
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<213> Homo sapiens

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<210> 31
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<212> PRT
<213> Homo sapiens

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Arg Ser

<210> 32
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<212> PRT
<213> *Rattus norvegicus*

<400> 32

Arg Ile Tyr Phe Phe Pro Gly Gln Phe Ala Phe Ser Arg Ala Leu
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<210> 33
<211> 18
<212> PRT
<213> *Mus musculus*

<400> 33

His Gly Tyr Phe Leu Pro Gly Gln Phe Ala Phe Ser Arg Ala Leu Arg
1 5 10 15

Thr Lys

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<212> PRT
<213> *Sus scrofa*

<400> 34

His Ser Tyr Tyr Phe Pro Gly Gln Phe Ala Phe Phe Lys Ala Leu Pro
1 5 10 15

Pro Ser

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<212> PRT
<213> *Bos taurus*

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<210> 36

<211> 16

<212> PRT

<213> Gallus gallus

<400> 36

Asp Val Leu Tyr Leu Pro Gly Met Phe Ala Phe Ser Lys Gly Leu Pro
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<210> 37

<211> 7

<212> PRT

<213> Artificial

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<223> Substrate peptide for Protein Kinase C

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Phe Lys Lys Ser Phe Lys Leu
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<210> 38

<211> 11

<212> DNA

<213> artificial

<220>

<223> Consensus NF-kappa B binding site

<400> 38

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